



*Hed*

PATENT

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*jmb*  
Date January 10, 2007 Jennifer Badley

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Clarence T. Tegreene  
Application No. : 10/814,454  
TITLE : MOTE NETWORKS USING DIRECTIONAL ANTENNA  
TECHNIQUES  
Confirmation No. : 8393  
Filed : March 31, 2004

Examiner : Nguyen, Lee  
Art Unit : 2618  
Docket No. : 0104-003-007-000000  
Customer No. : 44,765

Mail Stop Amendment  
Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT SUBMITTED

01/16/2007 LWONDIH1 00000014 10814454

AFTER FIRST OFFICE ACTION

01 FC:1806

180.00 OP

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(d), Applicant brings to the attention of the Examiner the documents listed on the attached PTO-1449 (substitute form). Applicant respectfully requests that the Examiner consider the listed documents

and evidence that consideration by making appropriate notations on the attached form. Pursuant to 37 CFR 1.98(a)(2), copies of the foreign patent documents and non-patent literature are attached.

Applicant is supplying a copy of the International Search Report for cross-referenced application 10/877,109 (not the instant case.) Applicant notes that the International Search Report has not been generated under U.S. law and therefore has little, if any, applicability to the instant case. However, the International Search Report is being cited to the examiner for the sake of completeness and courtesy.

Applicant is supplying a copy of the International Search Report for cross-referenced application 10/813,967 (not the instant case.) Applicant notes that the International Search Report has not been generated under U.S. law and therefore has little, if any, applicability to the instant case. However, the International Search Report is being cited to the examiner for the sake of completeness and courtesy.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." Applicant reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

In accordance with Section 1.97(c), the required fee is being submitted. The Commissioner is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 502857. A duplicate copy of this sheet is enclosed.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Respectfully submitted,



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Dale Cook  
Attorney  
Registration No. 42,434

DRC:jmb

Enclosures:

- Postcard
- Check
- Post-Filing Transmittal
- Form PTO-1449 (substitute)
- ~~8~~ Cited References including a  
9 Copy of the International Search Reports (2)

Searete LLC  
1756 – 114<sup>th</sup> Ave. S.E., Suite 110  
Bellevue, WA 98004  
(425) 467-2300  
(425) 467-2351 Facsimile

<http://isf.intven.com/Shared Documents/Patents Filed-Active Drafts/Data Architecture-003/0104-003-007-Mote Netwks-Direc Antenna Techs/IDS-SIDS 5.doc>



METHOD OF PAYMENT

☒ Payment enclosed

☒ Check

☐ Money Order

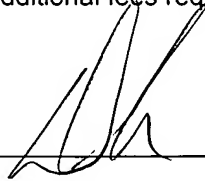
☐ Other

☒ The Commissioner is hereby authorized to

☐ Charge indicated fees and credit any over payments to Deposit Account No. \_\_\_\_\_

☒ Charge any additional fees required under 37 C.F.R. §§ 1.16 and 1.17 to Deposit Account No. 502857.

Submitted by:



Dale Cook

Reg. No. 42,434

09 Jan 2007  
Date

<http://isf.intven.com/Shared Documents/Patents Filed-Active Drafts/Data Architecture-003/0104-003-007-Mote Netwks-Direc Antenna Techs/fee trans-response fee-large.doc>



|  |                        |                      |                      |
|--|------------------------|----------------------|----------------------|
| Substitute for form 1449A/PTO  |                        | Application Number   | 10/814,454           |
| <b>SUPPLEMENTAL INFORMATION<br/>DISCLOSURE STATEMENT BY<br/>APPLICANTS</b><br><i>(Use as many sheets as necessary)</i> |                        | Filing Date          | March 31, 2004       |
|  |                        | First Named Inventor | Clarence T. Tegreene |
|  |                        | Group Art Unit       | 2618                 |
|  |                        | Examiner Name        | Lee Nguyen           |
| Sheet 1 of 2   | Attorney Docket Number | 0104-003-007-000000  |                      |

| U.S. PATENT DOCUMENTS |                       |  |                            |                    |
|-----------------------|-----------------------|--|----------------------------|--------------------|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Number<br>Number-Kind Code <sup>2</sup> (if known) | Issue Date<br>(MM-DD-YYYY) | Name of Patentee   |
|                       | AA                    | 7,103,511 B2   | 09-05-2006                 | Petite, Thomas D.  |
|                       | AB                    | 7,016,812 B2   | 03-21-2006                 | Aritsuka et al.    |
|                       | AC                    | 6,950,778 B2   | 09-27-2005                 | Warner et al.      |
|                       | AD                    | 6,943,747 B2   | 09-13-2005                 | Kwon, Do-Hoon      |
|                       | AE                    | 6,888,453 B2   | 05-03-2005                 | Lutz et al.        |
|                       | AF                    | 6,792,321 B2   | 09-14-2004                 | Sepe, Jr., Raymond |
|                       | AG                    | 6,618,745 B2   | 09-09-2003                 | Christensen et al. |
|                       | AH                    | 6,296,205 B1   | 10-02-2001                 | Hanson et al.      |
|                       | AI                    | 6,088,665  | 07-11-2000                 | Burns et al.       |
|                       | AJ                    | 5,697,066  | 09-12-1997                 | Acampora, Anthony  |
|                       | AK                    | 5,432,519  | 07-11-1995                 | Sezai, Toshihiro   |

| U.S. PATENT APPLICATION DOCUMENTS |                       |   |                                  |                   |
|-----------------------------------|-----------------------|---|----------------------------------|-------------------|
| Examiner Initials*                | Cite No. <sup>1</sup> | U.S. Patent Application<br>Publication Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>(MM-DD-YYYY) | Name of Applicant |
|                                   | AL                    | 2006/0136627 A1   | 06-22-2006                       | Maity et al.      |
|                                   | AM                    | 2005/0062653 A1   | 03-24-2005                       | Cetiner et a.     |
|                                   | AN                    | 2003/0172221 A1   | 09-11-2003                       | McNeil, Donald H. |
|                                   | AO                    | 2002/0123864 A1   | 09-05-2002                       | Eryurek et al.    |
|                                   | AP                    | 2002/0036595 A1   | 03-28-2002                       | Chiang et al.     |
|                                   | AQ                    | 2002/0027504 A1   | 03-07-2002                       | Davis et al.      |

OMB 0651-0031

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

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|   |   |                      |                      |                        |                     |
|---|---|----------------------|----------------------|------------------------|---------------------|
| Substitute for form 1449A/PTO<br><b>SUPPLEMENTAL INFORMATION<br/>DISCLOSURE STATEMENT BY<br/>APPLICANTS</b><br><i>(Use as many sheets as necessary)</i> |   | Application Number   | 10/814,454           |                        |                     |
|   |   | Filing Date          | March 31, 2004       |                        |                     |
|   |   | First Named Inventor | Clarence T. Tegreene |                        |                     |
|   |   | Group Art Unit       | 2618                 |                        |                     |
|   |   | Examiner Name        | Lee Nguyen           |                        |                     |
| Sheet   | 2 | of                   | 2                    | Attorney Docket Number | 0104-003-007-000000 |

| FOREIGN PATENT DOCUMENTS |                          |   |                                  |   |                |
|--------------------------|--------------------------|---|----------------------------------|---|----------------|
| Examiner<br>Initials     | Cite<br>No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) | Publication Date<br>(MM-DD-YYYY) | Name of Patentee<br>or Applicant of<br>Cited Document | T <sup>6</sup> |
|                          | AR                       |   |                                  |   |                |

| NON PATENT LITERATURE DOCUMENTS |                          |   |
|---------------------------------|--------------------------|---|
| Examiner<br>Initials            | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item<br>(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),<br>publisher, city and/or country where published. |
|                                 | AS                       | ADLER, ROBERT et al.; "Demo Abstract: Intel Mote 2: An Advanced Platform for Demanding Sensor Network Applications"; Intel Corporation; bearing dates of November 2-4, 2005; p. 298; (plus cover sheet)   |
|                                 | AT                       | DUTTA, PRABAL K. et al.; "System Software Techniques for Low-Power Operation in Wireless Sensor Networks"; Computer Science Division, University of California, Berkeley; bearing a date of 2005; pp. 924 – 931; (plus cover sheet)                                   |
|                                 | AU                       | KRAUSE, ANDREAS et al.; "Near-optimal Sensor Placements: Maximizing Information while Minimizing Communication Cost"; bearing dates of April 19-21, 2006; pp. 2 – 10; (plus cover sheets)   |
|                                 | AV                       | LU, JIE et al.; "User Modeling for Full-Text Federated Search in Peer-to-Peer Networks"; Language Technologies Institute, Carnegie Mellon University; bearing dates of August 6 – 11, 2006; pp. 332 – 339; (plus cover sheet)   |
|                                 | AW                       | NACHMAN, LAMA et al.; "The Intel ® Mote Platform: A Bluetooth*-Based Sensor Network for Industrial Monitoring"; Corporate Technology Group, Intel Corporation; bearing a date of 2005; pp. 1 – 6; (plus cover sheet)  |
|                                 | AX                       | PCT International Search Report; International App. No.: PCT/US05/11202; 27 September 2006  |
|                                 | AY                       | PCT International Search Report; International App. No.: PCTUS05/10054; 01 December 2006  |
|                                 | AZ                       | RAZEEB, KAFIL M. et al.; "A Hybrid Network of Autonomous Sensor Nodes"; NMRC, University College Cork; bearing dates of November 8 – 10, 2004; pp. 69 – 70; (plus cover sheet)  |
|                                 | BA                       | SHARIFZADEH, MEHDI et al.; "Supporting Spatial Aggregation in Sensor Network Databases*"; Computer Science Department, University of Southern California; bearing dates of November 12 – 13, 2004; pp. 166 – 175; (plus cover sheet)                                  |

OMB 0651-0031

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
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